

## Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

*This subsection includes:*

- **(a) Trees and Shrubs for Windbreak and Environmental Plantings**

Buchanan County, Missouri  
Windbreaks and Environmental Plantings

(Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
1B: MARSHALL-----	---	---	---	---	---
1B2: MARSHALL-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
1C: MARSHALL-----	---	---	---	---	---
1C2: MARSHALL-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
1D2: MARSHALL-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
2D: CONTRARY-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
3C2: HIGGINSVILLE-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak
3D2: HIGGINSVILLE-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak

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	<8	8-15	16-25	26-35	>35
4C: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
4C2: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
4D2: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
4D3: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
4E3: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
4F: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
7B2: SHARPSBURG-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
7C2: SHARPSBURG-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine

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	<8	8-15	16-25	26-35	>35
7D2: SHARPSBURG-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
11B: SIBLEY-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
21B: JUDSON-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
COLO-----	---	---	---	---	---
22A: WIOTA-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
25F: GOSPORT-----	---	---	---	---	---
29F: GASCONADE-----	---	---	---	---	---
31D: ARMSTER-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
33D2: ARMSTRONG-----	fragrant sumac; ninebark	Amur maple; gray dogwood; possumhaw	eastern redcedar	Austrian pine; common hackberry; honeylocust; Norway spruce; pin oak	---

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	<8	8-15	16-25	26-35	>35
42C2: LAMONI-----	---	---	---	---	---
42D2: LAMONI-----	---	---	---	---	---
44D2: SHELBY-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
52: KENNEBEC-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak
53B: JUDSON-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
54C: OLMITZ-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
55: COLO-----	---	---	---	---	---
56: ZOOK-----	---	---	---	---	---
57: WABASH-----	buttonbush	possumhaw	eastern arborvitae; eastern redcedar; nannyberry	baldcypress; common hackberry; pin oak	eastern cottonwood

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	<8	8-15	16-25	26-35	>35
58: WALDRON-----	---	---	---	---	---
60: COLO-----	---	---	---	---	---
61: NODAWAY-----	---	---	---	---	---
64B: SARPY-----	American plum; common lilac; fragrant sumac; gray dogwood	autumn olive; Washington hawthorn	blackjack oak; diospyros; eastern redcedar; jack pine	eastern cottonwood	---
66: HAYNIE-----	---	---	---	---	---
70: MODALE-----	American plum; blackhaw	possumhaw	eastern arborvitae; eastern redcedar; nannyberry; Washington hawthorn; white spruce	bur oak; common hackberry; green ash	---
74: PERCIVAL-----	American plum; blackhaw	possumhaw	eastern arborvitae; eastern redcedar; nannyberry; Washington hawthorn; white spruce	bur oak; common hackberry; green ash	---
77: DOCKERY-----	---	---	---	---	---
79: ONAWA-----	---	---	---	---	---

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	<8	8-15	16-25	26-35	>35
81: ALBATON-----	American plum; buttonbush	possumhaw; pussy willow	eastern arborvitae; eastern redcedar	black willow; common hackberry; honeylocust	---
83: LEVASY-----	American plum; buttonbush	possumhaw; pussy willow	eastern arborvitae; eastern redcedar	black willow; common hackberry; honeylocust	---
93: GRABLE-----	---	---	---	---	---
98: UDIFLUVENTS-----	---	---	---	---	---
WATER-----	---	---	---	---	---
99: PITS-----	---	---	---	---	---
101: KENMOOR-----	American plum; blackhaw	possumhaw	eastern arborvitae; eastern redcedar; nannyberry; Washington hawthorn; white spruce	bur oak; common hackberry; green ash	---
102: HAYNIE-----	---	---	---	---	---
ONAWA-----	---	---	---	---	---

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	<8	8-15	16-25	26-35	>35
104E: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
URBAN LAND-----	---	---	---	---	---
104F: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
URBAN LAND-----	---	---	---	---	---
105C: MARSHALL-----	---	---	---	---	---
URBAN LAND-----	---	---	---	---	---
105E: MARSHALL-----	---	---	---	---	---
URBAN LAND-----	---	---	---	---	---
106A: URBAN LAND-----	---	---	---	---	---
229F: GOSPORT-----	---	---	---	---	---
GASCONADE-----	---	---	---	---	---
M-W: WATER-----	---	---	---	---	---
W: WATER-----	---	---	---	---	---